

Launch Mission Execution Forecast

Mission: Falcon 9 NROL-108

Issued: 17 Dec 2020 / 1130L (1630Z)

Valid: 18 Dec 2020 / 0900 – 1200L (1400 – 1700Z)



Forecast Discussion: High-pressure will build in across Central Florida behind the front. The northerly winds will become gusty in the afternoon along the Space Coast while cloud cover clears through the day. It will be a chilly start to the day Friday at the Spaceport with mostly clear skies. Winds will remain gusty from the northeast due to the strength of the high-pressure area. The primary weather concern for Friday's attempt is Liftoff Winds.

On Saturday winds will become easterly and weaken as the high-pressure center moves over the Outer Banks. These onshore winds will bring any weak showers over the Gulf Stream towards the Space Coast. The primary weather concern for an attempt Saturday is Cumulus Clouds associated with these coastal showers.

	Probability of Violating Weather Constraints									
Day	20% Primary Concerns: Liftoff Winds									
ch	Weather Conditions							Additional Risk Criteria		
aunch	Weather/Visi	bility:	None /7 mi.	Туре	Clouds Coverage	Base (ft)	Tops (ft)	Upper-Level Wind Shear:	Moderate	
Ĭ	Temp/Humid	ity:	50→60°F / 72%	Stratocumulus	Few	2,000	4,000	Booster Recovery Weather:	Moderate	
	Liftoff Winds	(200'):	010° 17-22 mph	Cirrostratus	Scattered	28,000	30,000	Solar Activity:	Low	
	Probability of Violating Weather Constraints									
20% Primary Concerns: Cumulus Cloud Rule										
	Weather Conditions									
ın				Conditions				Additional Risk Cr	iteria	
-Hour	Weather/Visi	bility:		r Conditions	Clouds Coverage	Base (ft)	Tops (ft)	Additional Risk Cri	i teria	
24-Hour	Weather/Visi	•	Weather		Clouds		Tops (ft) 8,000			
24-Hour	Temp/Humid	ity:	Weather Isold Showers / 7 mi.	Туре	Clouds Coverage	Base (ft)	,	Upper-Level Wind Shear:	Low	
Note:	Temp/Humid Liftoff Winds	ity: (200'): of Violatio	Weather Isold Showers / 7 mi. 64°F / 65% 090° 15-20 mph on (POV) is the chance tha	Type Cumulus t a Lightning Launce	Clouds Coverage Scattered	Base (ft) 3,500 eria (LLCC)	8,000	Upper-Level Wind Shear: Booster Recovery Weather:	Low Low Ditation, and	